

Title (en)
WING SLOT SEAL

Title (de)
FLÜGELSPALTDICHTUNG

Title (fr)
JOINT D'ÉTANCHÉITÉ DE FENTE D'AILE

Publication
EP 2556327 B1 20160608 (EN)

Application
EP 11801286 A 20110407

Priority
• US 32181610 P 20100407
• US 2011031584 W 20110407

Abstract (en)
[origin: WO2012003025A2] A low cost, lightweight frangible wing slot seal can be applied to a guidance wing slot of a folding fin aerial rocket or missile, providing a barrier against exposure of internal missile components to external contaminants, while allowing unhindered deployment of missile guidance wings simply by bursting through the seals. The simple design is nearly foolproof, and has no impact the likelihood of weapon failure. The seal is a flexible sheet which is sufficiently thin so as not to exceed the required volume envelope of the missile. The sheet includes a burst seam, which is breached when impacted by the leading edge of a deploying wing. No additional wing deployment force is required, and after deployment the seal has minimal impact on the aerodynamic performance of the wing.

IPC 8 full level
F42B 10/18 (2006.01); **F42B 10/12** (2006.01); **F42B 10/14** (2006.01); **F42B 39/00** (2006.01)

CPC (source: EP US)
F42B 10/14 (2013.01 - EP US); **F42B 39/00** (2013.01 - EP US)

Cited by
US11340052B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2012003025 A2 20120105; **WO 2012003025 A3 20120329**; EP 2556327 A2 20130213; EP 2556327 A4 20150812;
EP 2556327 B1 20160608; US 2014312575 A1 20141023; US 8895908 B2 20141125

DOCDB simple family (application)
US 2011031584 W 20110407; EP 11801286 A 20110407; US 201113376846 A 20110407